

**Отчет по лабораторной работе № 1 по курсу
“Разработка интернет-приложений”**

«Введение в Python»

ИСПОЛНИТЕЛЬ:

студентка группы
ИУ5-53

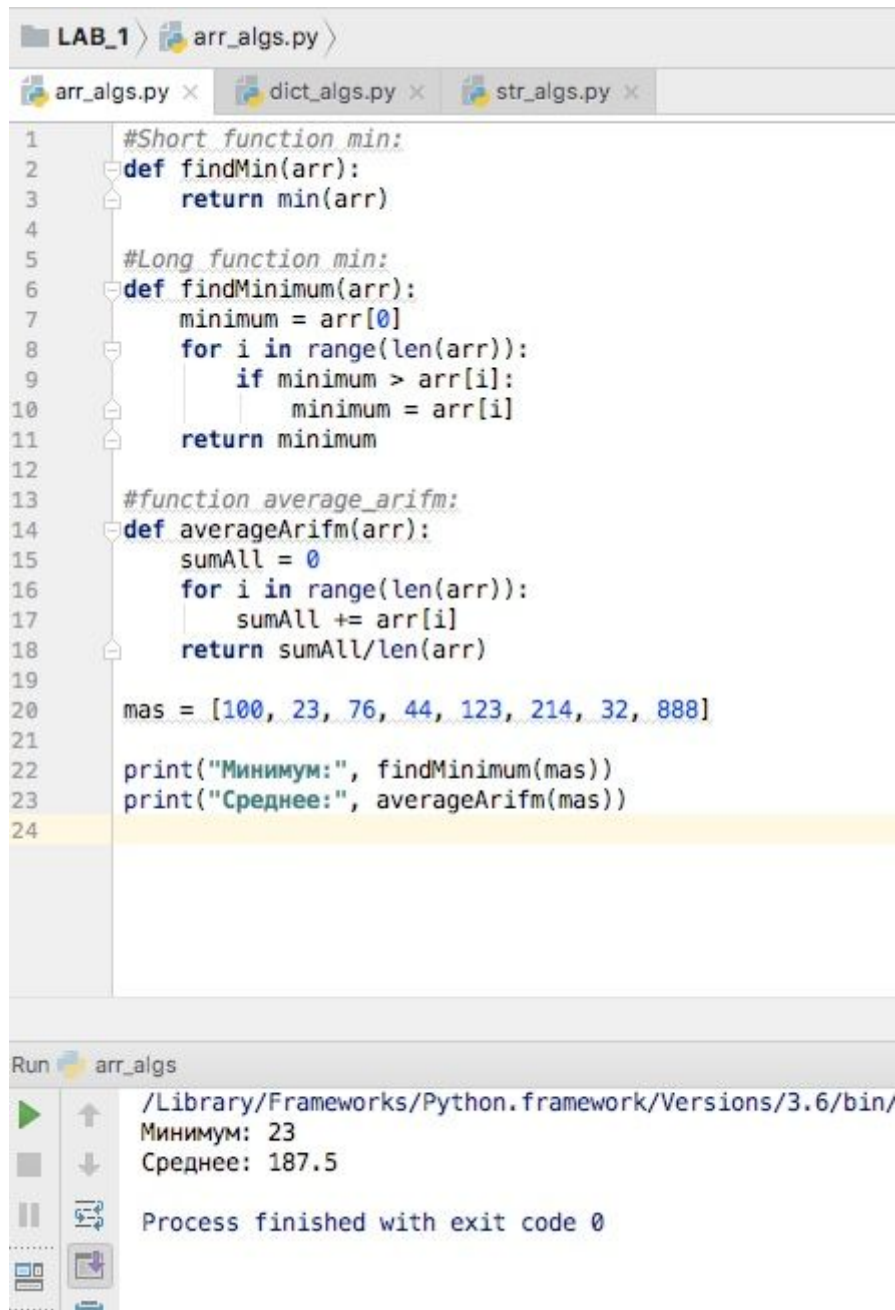
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Основная задача лабораторной работы - знакомство с базовым синтаксисом языка Python.

1. Массивы.



The screenshot shows a Python IDE with a file named `arr_algs.py` open. The code defines three functions: `findMin`, `findMinimum`, and `averageArifm`. It then creates a list `mas` and prints the results of `findMinimum(mas)` and `averageArifm(mas)`. The output window shows the execution results: "Минимум: 23" and "Среднее: 187.5".

```
LAB_1 > arr_algs.py >
arr_algs.py x dict_algs.py x str_algs.py x
1  #Short function min:
2  def findMin(arr):
3      return min(arr)
4
5  #Long function min:
6  def findMinimum(arr):
7      minimum = arr[0]
8      for i in range(len(arr)):
9          if minimum > arr[i]:
10             minimum = arr[i]
11      return minimum
12
13  #function average_arifm:
14  def averageArifm(arr):
15      sumAll = 0
16      for i in range(len(arr)):
17          sumAll += arr[i]
18      return sumAll/len(arr)
19
20  mas = [100, 23, 76, 44, 123, 214, 32, 888]
21
22  print("Минимум:", findMinimum(mas))
23  print("Среднее:", averageArifm(mas))
24

Run arr_algs
/Library/Frameworks/Python.framework/Versions/3.6/bin/
Минимум: 23
Среднее: 187.5
Process finished with exit code 0
```

2. Строки.

```
LAB_1 > str_algs.py >
arr_algs.py x dict_algs.py x str_algs.py x
1 #Inverse string func:
2 def invertStr(sent):
3     sent2 = ""
4     for i in range(len(sent)):
5         sent2 += sent[len(sent) - (i+1)]
6     sent = sent2
7     return sent
8
9 sen = "Hello, world!"
10 print(invertStr(sen))

str_algs
↑ /Library/Frameworks/Python.framework/Versions/.
!dlrow ,olleH
↓
Process finished with exit code 0
```

3. Словари.



The screenshot shows a Python IDE with three tabs: `arr_algs.py`, `dict_algs.py` (active), and `str_algs.py`. The `dict_algs.py` file contains the following code:

```
    "age": 12,
}, {
    "name": "Petja",
    "age": 10,
}]
}
darja = {
    "name": "Darja",
    "age": 41,
    "children": [{
        "name": "Kirill",
        "age": 21,
    }, {
        "name": "Pavel",
        "age": 15,
    }]
}

emps = [ivan, darja]

findWorkers(emps, 18)

print( findWorkers(emps, 18) )
```

The variable `ivan` is not defined in the visible code but is used in the `emps` list. The `findWorkers` function is also not defined. The output console at the bottom shows the result of the `print` statement:

```
dict_algs
/Library/Frameworks/Python.framework/Versions/
['Darja']
```